

# NAN YA PLASTICS CORPORATION

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 7.0 Revision Date 21.06.2019

Print Date 31.07.2019

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : **Diisodecyl phthalate (DIDP)**

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet

Company : Petrochemicals 1st Div, Nan Ya Plastics Corporation Taiwan,R.O.C

Telephone : (886)5-6818477~78

Fax : (886)5-6812687

#### 1.4 Emergency telephone number

Emergency Phone # : (886)5-6818477~78

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008 [CLP]**

**Pictogram**



**Signal word**

Warning

**Hazard statement(s)**

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s)**

P273 Avoid release to the environment.

P501 Dispose of contents/ container to an approved waste disposal plant.

**Supplemental Hazard Statements**

none

Restricted to professional users.

**According to European Directive 67/548/EEC as amended.**

**Hazard symbol(s)**



**R-phrases(s)**

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases(s)**

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

#### 2.3 Other hazards – none

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<p><b>3. COMPOSITION/INFORMATION ON INGREDIENTS</b></p> <p><b>3.1 Substances</b>                  Synonyms : DIDP                  CAS-No. : 68515-49-1                  EC-No. : 271-091-4                  REACH No. : 05-2114091103-60-0000                  Molar mass : 446.66 g/mol                  Molecular formula : C<sub>28</sub>H<sub>46</sub>O<sub>4</sub></p>
<p><b>4. FIRST AID MEASURES</b></p> <p><b>4.1 Description of first aid measures</b>  <b>General advice</b>                  Consult a physician. Show this safety data sheet to the doctor in attendance.  <b>If inhaled</b>                  If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  <b>In case of skin contact</b>                  Wash off with soap and plenty of water. Consult a physician.  <b>In case of eye contact</b>                  Flush eyes with water as a precaution.  <b>If swallowed</b>                  Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</p> <p><b>4.2 Most important symptoms and effects, both acute and delayed</b>                  Acute symptoms of overexposure include:, Erythema</p> <p><b>4.3 Indication of any immediate medical attention and special treatment needed</b>                  no data available</p>
<p><b>5. FIREFIGHTING MEASURES</b></p> <p><b>5.1 Extinguishing media</b>  <b>Suitable extinguishing media</b>                  Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</p> <p><b>5.2 Special hazards arising from the substance or mixture</b>                  Carbon oxides</p> <p><b>5.3 Advice for firefighters</b>                  Wear self contained breathing apparatus for fire fighting if necessary.</p> <p><b>5.4 Further information</b>                  no data available</p>
<p><b>6. ACCIDENTAL RELEASE MEASURES</b></p> <p><b>6.1 Personal precautions, protective equipment and emergency procedures</b>                  Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.</p> <p><b>6.2 Environmental precautions</b>                  Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.</p> <p><b>6.3 Methods and materials for containment and cleaning up</b>                  Keep in suitable, closed containers for disposal.</p> <p><b>6.4 Reference to other sections</b>                  For disposal see section 13.</p>
<p><b>7. HANDLING AND STORAGE</b></p> <p><b>7.1 Precautions for safe handling</b>                  no data available</p> <p><b>7.2 Conditions for safe storage, including any incompatibilities</b>                  Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.</p> <p><b>7.3 Specific end uses</b>                  no data available</p>

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

**Components with workplace control parameters**

#### 8.2 Exposure controls

##### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

##### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Immersion protection

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: > 480 min

Material tested: Dermatril® (Aldrich Z677272, Size M)

##### Splash protection

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: > 30 min

Material tested: Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

##### Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: liquid
	Colour: colorless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	-50°C
f) Initial boiling point and boiling range	> 316°C
g) Flash point	232 °C - closed cup
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	5.28 x 10 <sup>-7</sup> mmHg (25°C)
l) Vapour density	no data available
m) Relative density	0.962~0.978 g/mL at 25 °C
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Autoignition temperature	402°C
q) Decomposition temperature	no data available

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r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available
<b>9.2 Other safety information</b>	no data available
<b>10. STABILITY AND REACTIVITY</b>	
<b>10.1 Reactivity</b>	no data available
<b>10.2 Chemical stability</b>	no data available
<b>10.3 Possibility of hazardous reactions</b>	no data available
<b>10.4 Conditions to avoid</b>	no data available
<b>10.5 Incompatible materials</b>	Strong oxidizing agents
<b>10.6 Hazardous decomposition products</b>	Other decomposition products - no data available
<b>11. TOXICOLOGICAL INFORMATION</b>	
<b>11.1 Information on toxicological effects</b>	
<b>Acute toxicity</b>	
LD50 Oral - rat - 64000 mg/kg	
LD50 Dermal - rabbit - > 3160 mg/kg	
<b>Skin corrosion/irritation</b>	
no data available	
<b>Serious eye damage/eye irritation</b>	
no data available	
<b>Respiratory or skin sensitization</b>	
no data available	
<b>Germ cell mutagenicity</b>	
no data available	
<b>Carcinogenicity</b>	
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
<b>Reproductive toxicity</b>	
Developmental Toxicity - rat - Oral	
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). Specific Developmental Abnormalities: Musculoskeletal system.	
<b>Specific target organ toxicity - single exposure</b>	
no data available	
<b>Specific target organ toxicity - repeated exposure</b>	
no data available	
<b>Aspiration hazard</b>	
no data available	
<b>Potential health effects</b>	
<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Signs and Symptoms of Exposure</b>	
Acute symptoms of overexposure include:, Erythema	
<b>Additional Information</b>	
RTECS: TI1270000	

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<b>12. ECOLOGICAL INFORMATION</b>		
<b>12.1 Toxicity</b>		
<b>Toxicity to fish</b> LC50 - Oncorhynchus mykiss (rainbow trout) - > 0,62 mg/l - 96 h		
<b>Toxicity to daphnia and other aquatic invertebrates</b> EC50 - Daphnia magna (Water flea) - > 0,02 mg/l - 48 h		
<b>12.2 Persistence and degradability</b> no data available		
<b>12.3 Bioaccumulative potential</b> no data available		
<b>12.4 Mobility in soil</b> no data available		
<b>12.5 Results of PBT and vPvB assessment</b> no data available		
<b>12.6 Other adverse effects</b> Very toxic to aquatic life with long lasting effects. no data available		
<b>13. DISPOSAL CONSIDERATIONS</b>		
<b>13.1 Waste treatment methods</b>		
<b>Product</b> Offer surplus and non-recyclable solutions to a licensed disposal company.		
<b>Contaminated packaging</b> Dispose of as unused product.		
<b>14. TRANSPORT INFORMATION</b>		
<b>14.1 UN number :</b>		
<b>14.2 Transport hazard class(es)</b>		
ADR/RID: —	IMDG: —	IATA: —
<b>14.3 Packaging group</b>		
ADR/RID: —	IMDG: —	IATA: —
<b>14.4 Environmental hazards</b>		
ADR/RID: —	IMDG Marine pollutant: —	IATA: —
<b>14.5 Special precautions for user</b>		
<b>Further information</b> EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.		
<b>15. REGULATORY INFORMATION</b>		
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b> no data available		
<b>15.2 Chemical Safety Assessment</b> no data available		
<b>16. OTHER INFORMATION</b>		
<b>Further information</b> The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product		